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On the regulation of the metabolic shift and protein synthesis in *Lactococcus Lactis*

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PROPOSITIONS
belonging to the PhD thesis

**On the regulation of the metabolic
shift and protein synthesis
in *Lactococcus lactis***

by

Pranav Puri

1. *Lactococcus lactis* is adapted to a bipolar lifestyle of feasting and starving. Even if not needed, the organism keeps a large capacity of ribosomes and glycolytic enzymes to allow a rapid response when nutritional conditions change. (Chapter 3).
2. Most of the regulation of protein synthesis and glycolytic flux in *Lactococcus lactis* is at the level of allostery (Chapter 3 and 4).
3. *Lactococcus lactis* has a dual-domain protein, YfiA, which elicits a major conformational change in ribosomes and triggers their dimerisation (Chapter 5).
4. In todays times, basic research can be compared to a Ferarri: cut short because of its high operational costs, but highly praised after winning a race.
5. The practice of inviting companies for on-campus job placement of students should be encouraged at all universities.
6. Doing a PhD is comparable to playing a cricket test match, you need to have a clear strategy, patience and be prepared for the surprise element.
7. Dutch weather is like a PhD journey: rainy, dark, cold and windy. And then, you get days of sunshine that make it all enjoyable and worthwhile.
8. Fear is not real. It is a product of thoughts you create. Danger is very real but fear is a choice – *Will Smith*.
9. Enjoy your game and chase your dreams, because dreams do come true - *Sachin Tendulkar*.